	Application No.	Applicant(s)
Notice of Allowability	09/558,149	NICOLAIDES ET AL.
	Examiner	Art Unit
	Valarie Bertoglio	1632
	valarie bertoglio	1032
The MAILING DATE of this communication apperation apperation being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. X This communication is responsive to the amendament filed	1 05/01/2007	
2. X The allowed claim(s) is/are 60,61,71-75,86-87,89-90,92-93	<u>3</u> .	
 3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d)	or (f).
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review	w (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on t he header according to 37 Cl	he drawings in the front (not the back) of FR 1.121(d).
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	oformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview S	ummary (PTO-413),
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ⊠ Examiner's	/Mail Date Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's	Statement of Reasons for Allowance
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An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Sarah Kagan on 06/11/2007.

The application has been amended as follows:

Claims 60,61,71,75 and 89 have been amended to read as follows:

60. A transgenic mouse wherein the germ and somatic cells of said mouse comprise a transgene

comprising a polynucleotide encoding a dominant negative form of a human PMS2 mismatch repair

protein, wherein the protein consists of the first 133 amino acids of human PMS2, and wherein said

polynucleotide is operably linked to a promoter, wherein the cells of said mouse that express said

transgene are hypermutable.

61. A transgenic mouse produced by a process comprising the steps of:

introducing a transgene comprising a polynucleotide encoding a dominant negative form of a human

PMS2 mismatch repair protein into a fertilized mouse egg, wherein the protein consists of the first 133

amino acids of human PMS2, and wherein said polynucleotide is operably linked to a promoter,

implanting the fertilized egg into a pseudopregnant female; and

allowing said mouse egg to develop into a transgenic mouse comprising cells that express the transgene,

wherein the cells of said mouse that express the transgene are hypermutable.

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71. (Currently Amended) A method for generating a mutation in a gene of interest comprising the steps

of:

introducing a transgene comprising a polynucleotide encoding a dominant negative form of a human

PMS2 mismatch repair protein into a fertilized mouse egg, wherein the protein consists of the first 133

amino acids of human PMS2, and wherein said polynucleotide is operably linked to a promoter;

implanting the fertilized egg into a pseudopregnant female;

allowing said fertilized mouse egg to develop into a transgenic mouse comprising cells that express the

transgene, wherein said cells that express the transgene are hypermutable; and testing the mouse to

determine whether the gene of interest has a mutation.

75. The method of claim 71 wherein the step of testing comprises analyzing a phenotype conferred by the

gene of interest.

89. The mouse of claim 60 wherein said polynucleotide comprises a truncation mutation at codon 134 of

SEQ ID NO: 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Valarie Bertoglio whose telephone number is (571) 272-0725. The examiner can normally

be reached on Mon-Thurs 5:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on (571) 272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Valarie Bertoglio, Ph.D./ Primary Examiner Art Unit 1632